EMS-110-91 Quality Assurance Sampling and Analysis Plan for Sampling and Analysis of Three Septic Tanks located at RWMC

Prepared by:

EG&G IDAHO, INC. ENVIRONMENTAL MONITORING UNIT

PROJECT REQUESTOR: S. French CHARGE NUMBER: 322051000

DATE OF REQUEST: 07/02/91

15/28%

REVIEWED:

SAMPLING OPERATIONS:

INTERNAL REVIEWER:

INDUSTRIAL HYGIENE:

APPROVED:

REQUESTOR:

1.0 PROJECT DESCRIPTION (S. 11)

It RWMC require sampling and amaracterization data 27 We GA CONTRACTION SO TELL,

Three septic tanks located at RWMC require sampling and analysis to provide chemical and radiological characterization data.

One tank has a capacity of 1250 gallons while the other two tanks have 2000 gallon capacity each.

2.0 PROJECT ORGANIZATION AND RESPONSIBILITY

The following is a list of key project personnel and their corresponding responsibilities:

Sampling Operations:

J. A. Johnson

Industrial Hygiene: Internal Reviewer:

D. Shoop S. Garcia

Laboratory Analysis:

EM approved laboratory

3.0 QUALITY ASSURANCE OBJECTIVES

Data Quality Area	Project Goal
Method Blanks	all contaminants less than detectable
Matrix Spikes	recoveries of 60-140% recommended, complexity of matrix may drastically interfere with the recoveries.
Surrogates	recoveries of 70-130 for volatiles surrogates
Internal Standards	recoveries of 50-200% when compared to the associated calibration standard
Holding Times	all met
Laboratory Control Standards	recoveries of 70-130%
Field Completeness	100% of all samples scheduled will be collected
Laboratory Completeness	100% of all samples submitted to the laboratory are analyzed and results reported.

4.0 SAMPLING AND ANALYSIS STRATEGY

Each tank is suspected to be bi-phased with a sludge phase on the bottom of Distribution I of pas a shirtly the tank and a liquid phase above.

TCLP VOLATILE SAMPLE COLLECTION

(3 liquid samples; one from each tank) (3 sludge samples; one from each tank)

One sample for TCLP volatile organic analysis will be collected from each phase of each tank using a teflon dipper. Samples will be collected in such a manner as to decrease mixing and minimize headspace. The samples will be placed in a cooler immediately after collection.

TCLP SEMIVOLATILE SAMPLE COLLECTION TCLP METALS SAMPLE COLLECTION TCLP PESTICIDE/HERBICIDE COLLECTION RADIOLOGICAL SAMPLE COLLECTION

(3 liquid samples for each analysis; one from each tank) (3 sludge samples for each analysis; one from each tank)

Samples will be collected from the liquid phase of each tank using a peristaltic pump. Liquid will be drawn from various depths in the phase and composited in a 5-gallon composite jugs. The liquid will be transferred, after gentle mixing, to the appropriate containers.

Samples will be collected from the solid phase of each tank using a teflon dipper. Sludge will be collected from various depths throughout the layer and composited in a glass mixing tray. The sludge will be transferred, after thorough compositing to the appropriate sample containers using a teflon coated or stainless steel spoon.

Materials and Equipment

- Miscellaneous Sampling Logbook
- Ь. Sample labels

c. Chain-of-Custody (COC) forms

Pen with indelible ink

Custody seals e.

For f. 99.

TCLP metalo 3-500 ml 940 (slu 3-1000 ml giass Cliqu

7/17/91 (DW) f. One 250 ml HDPE bottle per sludge sample collected for priority pollutant metals plus barium analysis (6 total).

One 500 ml HDPE bottle per liquid sample collected for priority g. pollutant metals plus barium analysis.

JULY 12, 1991

- h. One 125 ml glass bottle with teflon lined cap per sludge sample collected for volatiles analysis (6 total).
- Three 40 ml glass bottles per liquid sample collected for volatile analysis (18 total). 9 i.
- One 540 ml squat LDPE bottle per gross alpha/beta and gamma j. spectroscopy analysis. (g total) (studge)
- k. Plastic cooler

ADD CM 540 ML LDPE bottle per gross alph/beta ; gamma spec. analysis (3 total) liqu 1. Personal Protective Equipment (PPE)

- m. Kimwipes/teriwipes
- Blue ice n.

One 200 me giass bottle per liquid sample (olletted for TCLP semis pest/herts Parafilm ٥.

- Vermiculite p.
- two 500 me giass bottles per Sluage sample collected for TCLP semi pest/herB q. Peristaltic pump Teflon dippers (three) r.
- Composite jugs (three) S.
- Stainless steel or teflon coated spoons (three) t.
- Glass mixing trays (three) u.

5.0 ANALYTICAL METHODOLOGY

The analytical methods will be performed according to Environmental Protection Agency SW-846, "Test Methods for Evaluating Solid Waste", third edition.

Parameter	Analytical Method
TCLP Volatile Organic Constituents (Method 1311 Extraction)	SW-846 3rd Ed., Method 8240
TCLP Semivolatile Constituents (Method 1311 Extraction)	SW-846 3rd Ed., Method 8270
TCLP Pesticides (Method 1311 Extraction)	SW-846 3rd Ed., Method 8080
TCLP Herbicides (Method 1311 Extraction)	SW-846 3rd Ed., Method 8150

TCLP Metals (Method 1311 Extraction)	SW-846 3rd Ed, Methods 6010 and 7000 series
Gross Alpha/Beta	Radiation Measurements Laboratory
Gamma Spectroscopy	Standard Operating Procedures



These methods have been chosen based on the analytical objectives of the project, the physical state of the sample, the detection limits and regulatory action limits, and the sample matrix.

6.0 SAMPLE CUSTODY

All samples to be delivered for laboratory analysis will be labeled and accompanied by a COC record following the provisions of EMSP 8.1. Procedures for properly documenting data and sample collection, for controlling and tracking samples and for ensuring the integrity of the sample, are described in EMSP 13.1, Handling, Storing, and Shipping. An Environmental Monitoring approved subcontract laboratory will be used.

7.0 DATA EVALUATION, ASSESSMENT, AND REPORTING

All information, logbook pages, analytical packages, and project files will be submitted to the Sampling Operations Leader upon completion of sampling and analysis activities for transfer to quality record storage.

Initial data reduction and validation will be conducted by the EM approved subcontract laboratory. Final data evaluation and assessment will be performed by EM personnel using EMSPs 15.1 and 15.2.

A letter report will be issued to S. French by Environmental Monitoring at project completion.

8.0 HEALTH AND SAFETY

Samplers must be trained as per 29 CFR part 1910.120, have a current, valid, Health and Safety Permit Card (EG&G 2580), and must wear level D protection. Level D protection is comprised of minimal skin protection and no respiratory protection (from the Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities, October 1985). Recommended are: coveralls, safety shoes, safety glasses or chemical splash goggles, gloves and a hard hat. Optional equipment include escape mask and face shield.

The samplers must also have the EG&G Idaho confined space training and be support by an Industrial Hygienist.

Eating, drinking, chewing gum or tobacco, smoking, or any other practice that increases the probability of hand-to-mouth transfer and ingestion of material is prohibited during sampling activities. Hands and forearms must be thoroughly washed upon leaving the work area and before eating, drinking, smoking, or using the restroom.

Contact with potentially contaminated surfaces should be avoided whenever possible, personnel should avoid leaning, sitting, or placing equipment on drums, containers, vehicles, or the ground.

Sample collection operations will be suspended if an accident occurs, or if the field team leader determines that conditions are adversely affecting operations.

No instruments, tools, or protective gear used in the sampling activity will be allowed away from the immediate vicinity of the sampling area until they are decontaminated or controls are in place to avoid exposure during transport or storage.

Radiological Considerations

Radioactivity is a concern in this sampling effort. Work will be completed under a SWR and all samples will be surveyed by a qualified Health Physics Technician and a release tag secured before leaving the facility.

9.0 SCHEDULE

	<u>START</u>	<u>FINISH</u>
QA PLAN AND ORGANIZATION	07/02/91	07/02/91
QA PLAN REVIEW	07/02/91	07/09/91
SAMPLING AND ANALYSIS	07/09/91	08/19/91
PROJECT REPORT	08/19/91	08/24/91



325 Interlocken Parkway, Suite 200 Broomfield, Colorado 80021 (303) 469-8868

August 28, 1991

Mr. Jay Johnson EG&G Idaho, Inc. P.O. Box 1625 MS 4133 Idaho Falls, Idaho 83415

Dear Mr. Johnson:

Enclosed are the results from the analyses of seven waste samples, received on July 22, 1991, for the determination of TCLP metals, pesticides, chlorinated herbicides, volatile organic compounds and semivolatile organic compounds. Please feel free to call if you have any questions regarding these analyses.

Sincerely,

Michael G. Brooks

President

MGB/CLB/rt Enclosures

VISTA Project # 913885

Reviewed by,

Corinne L. Bogert

Technical Director

Sample Description

Laboratory ID	Client ID	Type	Date Received
01005 001	11007170101 A T	Waste	07/22/01
913885-001	11007179101A-D		07/22/91
913885-002	11007179102A-D	Waste	07/22/91
913885-003	11007179103A-C	Waste	07/22/91
913885-004	11007179104A-C	Waste	07/22/91
913885-005	11007179105A-D	Waste	07/22/91
913885-006	11007179106A-C	Waste	07/22/91
913885-007	11007179107A-D	Waste	07/22/91



Results and Discussion

VISTA Project # 913885

Seven waste samples were received on July 22, 1991, for the determination of TCLP metals, pesticides, chlorinated herbicides, volatile organic compounds and semivolatile organic compounds. The samples were analyzed according to the protocols described in USEPA SW-846, <u>Test Methods for Evaluating Solid Waste</u>, 3rd Ed. The samples were extracted for the Toxicity Characteristic Leaching Procedure (TCLP) according to Method 1311.

Quality control (QC) results are reported for another client's samples which were prepared and analyzed with these samples. Sample information for the QC samples is withheld to maintain client confidentiality.

TCLP Metals

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179101A-D

VISTA Sample ID: 913885-001 Date Sampled: 07/17/91

TCLP Preparation: 07/23/91

Sample Type: TCLP Leachate

Date Received: 07/22/91

<u>Result</u>	Reporting Limit	<u>Units</u>	<u>Method</u>	
<	0.5	mg/L	6010	
<	5	mg/L	6010	
<	0.1	mg/L	6010	
<	0.1	mg/L	6010	
<	0.5	mg/L	6010	
<	0.02	mg/L	7470	
<	0.5	mg/L	6010	
<	0.1	mg/L	6010	
	< < < < < < < < < < < < < < < < < < <	Result Limit < 0.5 < 5 < 0.1 < 0.1 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.02 < 0.5	<pre> < 0.5 mg/L < 5 mg/L < 0.1 mg/L < 0.1 mg/L < 0.5 mg/L < 0.5 mg/L < 0.02 mg/L < 0.5 mg/L < 0.5 mg/L </pre>	Result Limit Units Method <

< = Analyte not detected at or above the listed reporting limit.</pre>

TCLP List Pesticides EPA Method 8080

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179101A-D

VISTA Sample ID: 913885-001 Sample Ty Date Sampled: 07/17/91 Date Rece

TCLP Preparation: 07/23/91
Date Extracted: 07/25/91

Sample Type: TCLP Leachate

Date Received: 07/22/91

Date Analyzed: 08/06/91

<u>Analyte</u>	Result	Reporting <u>Limit</u>	<u>Units</u>
gamma-BHC (Lindane)	<	2.0	ug/L
Chlordane Endrin	< <	7.0 3.0	ug/L ug/L
Heptachlor	<	1.5	ug/L
Heptachlor Epoxide	<	42	ug/L
Methoxychlor	<	90	ug/L
Toxaphene	<	120	ug/L
Surrogate Recoveries			OC Limits
Dibutyl Chlorendate (DBC)	69	ક	20-150

< = Compound not detected at or above the listed reporting limit.</p>

TCLP List Chlorinated Herbicides EPA Method 8150

Client: EG&G Idaho, Inc. Client Sample ID: 11007179101A-D

VISTA Sample ID: 913885-001 Date Sampled : 07/17/91 TCLP Preparation: 07/23/91

Date Extracted: 07/26/91

Sample Type: TCLP Leachate

Date Received: 07/22/91

Date Analyzed: 08/08/91

<u>Analyte</u>	<u>Result</u>	Reporting Limit	<u>Units</u>
2,4-D 2,4,5-TP (Silvex)	< <	120 17	ug/L ug/L
Surrogate Recoveries			OC Limits
2,4-DCPAA	94 8	\$	37-132

< = Compound not detected at or above the listed reporting limit.</p>

TCLP List Volatile Organic Compounds - EPA Method 8240

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179101A-D

VISTA Sample ID: 913885-001 Sample Type: TCLP Leachate Date Sampled: 07/17/91 Date Received: 07/22/91

ZHE Preparation: 07/29/91 Date Analyzed: 08/06/91

<u>Analyte</u>	Result	Reporting <u>Limit</u>	<u>Units</u>
Benzene	<	25	ug/L
Carbon Tetrachloride	<	25	ug/L
Chlorobenzene	<	25	ug/L
Chloroform	<	25	ug/L
1,1-Dichloroethene	<	25	ug/L
1,2-Dichloroethane	<	25	ug/L
Methylethylketone (2-Butanone)	<	500	ug/L
Tetrachloroethene	<	25	ug/L
Trichloroethene	<	25	\mathtt{ug}/\mathtt{L}
Vinyl Chloride	<	50	ug/L
Surrogate Recoveries			OC Limits
Toluene-d _s	9	5 %	77-124
4-Bromofluorobenzene	10		70-123
1,2-Dichloroethane-d4	9	_	80-114

< = Compound not detected at or above the listed reporting limit.</p>

TCLP List Semivolatile Organic Compounds - EPA Method 8270

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179101A-D

VISTA Sample ID: 913885-001 Sample Type: TCLP Leachate Date Sampled : 07/17/91 Date Received: 07/22/91

TCLP Preparation: 07/23/91 Date Extracted: 07/26/91

Date Analyzed: 08/11/91

Analyte	<u>Result</u>	Reporting Limit	<u>Units</u>
m & p-Cresols	100	20	ug/L
o-Cresol	<	20	ug/L
1,4-Dichlorobenzene	<	20	ug/L
2,4-Dinitrotoluene	<	20	ug/L
Hexachlorobenzene	<	20	ug/L
Hexachlorobutadiene	<	20	ug/L
Hexachloroethane	<	20	ug/L
Nitrobenzene	<	20	ug/L
Pentachlorophenol	<	100	ug/L
Pyridine	<	20	ug/L
2,4,5-Trichlorophenol	<	20	ug/L
2,4,6-Trichlorophenol	<	20	ug/L
Surrogate Recoveries			OC Limits
Nitrobenzene-d ₅ 2-Fluorobiphenyl Terphenyl-d ₁₄ Phenol-d ₆ 2-Fluorophenol 2,4,6-Tribromophenol	81 66 77 69 125 61	क क क क क क	10-142 10-109 36-115 10-121 10-126 10-140

< = Compound not detected at or above the listed reporting limit.</p>

TCLP Metals

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179102A-D

VISTA Sample ID: 913885-002 Sample Type: TCLP Leachate Date Sampled: 07/17/91 Date Received: 07/22/91

TCLP Preparation: 07/23/91

		Reporting	•	
<u>Analyte</u>	Result	Limit	<u>Units</u>	<u>Method</u>
Arsenic	<	0.5	mg/L	6010
Barium	5	5	mg/L	6010
Cadmium	<	0.1	mg/L	6010
Chromium	<	0.1	mg/L	6010
Lead	<	0.5	mg/L	6010
Mercury	<	0.02	mg/L	7470
Selenium	<	0.5	mg/L	6010
Silver	<	0.1	mg/L	6010

< = Analyte not detected at or above the listed reporting limit.</pre>

TCLP List Pesticides EPA Method 8080

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179102A-D

VISTA Sample ID: 913885-002 Sample Type: TCLP Leachate Date Sampled : 07/17/91 Date Received: 07/22/91

TCLP Preparation: 07/23/91
Date Extracted: 07/25/91

Date Analyzed: 08/06/91

Analyte	Result	Reporting <u>Limit</u>	<u>Units</u>
gamma-BHC (Lindane) Chlordane Endrin Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	< < < < < < < < <	2.0 7.0 3.0 1.5 42 90 120	ug/L ug/L ug/L ug/L ug/L ug/L ug/L
Surrogate Recoveries			QC Limits
Dibutyl Chlorendate (DBC)	77	*	20-150

< = Compound not detected at or above the listed reporting limit.</p>

TCLP List Chlorinated Herbicides EPA Method 8150

Client: EG&G Idaho, Inc. Client Sample ID: 11007179102A-D

VISTA Sample ID: 913885-002

Date Sampled : 07/17/91 TCLP Preparation: 07/23/91

Date Extracted: 07/26/91

Sample Type: TCLP Leachate

Date Received: 07/22/91

Date Analyzed: 08/08/91

Analyte	Result	Reporting <u>Limit</u>	<u>Units</u>
2,4-D 2,4,5-TP (Silvex)	< <	120 17	ug/L ug/L
Surrogate Recoveries			OC Limits
2,4-DCPAA	86	8	37-132

< = Compound not detected at or above the listed reporting limit.</p>

TCLP List Volatile Organic Compounds - EPA Method 8240

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179102A-D

VISTA Sample ID: 913885-002 Sample Type: TCLP Leachate Date Sampled: 07/17/91 Date Received: 07/22/91

ZHE Preparation: 07/29/91 Date Analyzed: 08/06/91

Analyte	Result	Reporting <u>Limit</u>	<u>Units</u>
Benzene Carbon Tetrachloride Chlorobenzene Chloroform 1,1-Dichloroethene 1,2-Dichloroethane Methylethylketone (2-Butanone) Tetrachloroethene Trichloroethene Vinyl Chloride	< < < < < < < <	25 25 25 25 25 25 500 25 25	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L
Surrogate Recoveries Toluene-d ₈ 4-Bromofluorobenzene 1,2-Dichloroethane-d ₄	9 9 10	1 %	OC Limits 77-124 70-123 80-114

< = Compound not detected at or above the listed reporting limit.</p>

TCLP List Semivolatile Organic Compounds - EPA Method 8270

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179102A-D

VISTA Sample ID: 913885-002 Sample Type: TCLP Leachate Date Sampled: 07/17/91 Date Received: 07/22/91

TCLP Preparation: 07/23/91

Date Extracted: 07/26/91 Date Analyzed: 08/11/91

Analyte	Result	Reporting Limit	<u>Units</u>
m & p-Cresols	1,100	20	ug/L
o-Cresol	<	20	ug/L
1,4-Dichlorobenzene	<	20	ug/L
2,4-Dinitrotoluene	<	20	ug/L
Hexachlorobenzene	<	20	ug/L
Hexachlorobutadiene	<	20	ug/L
Hexachloroethane	<	20	ug/L
Nitrobenzene	<	20	ug/L
Pentachlorophenol	<	100	ug/L
Pyridine	<	20	ug/L
2,4,5-Trichlorophenol	<	20	\mathtt{ug}/\mathtt{L}
2,4,6-Trichlorophenol	<	20	ug/L
Surrogate Recoveries			OC Limits
Nitrobenzene-d ₅	70	ફ	10-142
2-Fluorobiphenyl	68	*	10-109
Terphenyl-d ₁₄	75	ક	36-115
Phenol-d _e	54	ક	10-121
2-Fluorophenol	105	*	10-126
2,4,6-Tribromophenol	76	*	10-140

< = Compound not detected at or above the listed reporting limit.</p>

TCLP Metals

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179103A-C

VISTA Sample ID: 913885-003 Date Sampled: 07/17/91

TCLP Preparation: 07/23/91

Sample Type: TCLP Leachate Date Received: 07/22/91

<u>Analyte</u>	<u>Result</u>	Reporting <u>Limit</u>	<u>Units</u>	<u>Method</u>
Arsenic	<	0.5	mg/L	6010
Barium	<	5	mg/L	6010
Cadmium	<	0.1	mg/L	6010
Chromium	<	0.1	mg/L	6010
Lead	<	0.5	mg/L	6010
Mercury	<	0.02	mg/L	7470
Selenium	<	0.5	mg/L	6010
Silver	<	0.1	mg/L	6010

< = Analyte not detected at or above the listed reporting limit.</pre>

TCLP List Pesticides EPA Method 8080

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179103A-C

VISTA Sample ID: 913885-003 Sample Type: TCLP Leachate Date Sampled: 07/17/91 Date Received: 07/22/91

TCLP Preparation: 07/23/91
Date Extracted: 07/25/91

Date Analyzed: 08/06/91

<u>Analyte</u>	<u>Result</u>	Reporting Limit	<u>Units</u>
gamma-BHC (Lindane) Chlordane Endrin Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	< < < < < <	2.0 7.0 3.0 1.5 42 90	ug/L ug/L ug/L ug/L ug/L ug/L ug/L
Surrogate Recoveries			OC Limits
Dibutyl Chlorendate (DBC)	77	%	20-150

< = Compound not detected at or above the listed reporting limit.</p>

TCLP List Chlorinated Herbicides EPA Method 8150

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179103A-C VISTA Sample ID: 913885-003

VISTA Sample ID: 913885-003
Date Sampled: 07/17/91
TCLP Preparation: 07/23/91
Date Extracted: 07/26/91

Date Received: 07/22/91
Date Analyzed: 08/08/91

Sample Type: TCLP Leachate

<u>Analyte</u>	<u>Result</u>	Reporting Limit	<u>Units</u>
2,4-D 2,4,5-TP (Silvex)	< <	120 17	ug/L ug/L
Surrogate Recoveries			OC Limits
2,4-DCPAA	93	8	37-132

< = Compound not detected at or above the listed reporting limit.</p>

TCLP List Volatile Organic Compounds - EPA Method 8240

Client: EG&G Idaho, Inc. Client Sample ID: 11007179103A-C

VISTA Sample ID: 913885-003 Sample Type: TCLP Leachate Date Sampled: 07/17/91 Date Received: 07/22/91

ZHE Preparation: 07/24/91 Date Analyzed: 08/06/91

Analyte	Result	Reporting <u>Limit</u>	<u>Units</u>
Benzene	. <	25	ug/L
Carbon Tetrachloride	<	25	ug/L
Chlorobenzene	<	25	ug/L
Chloroform	<	25	ug/L
1,1-Dichloroethene	<	25	ug/L
1,2-Dichloroethane	<	25	ug/L
Methylethylketone (2-Butanone)	<	500	ug/L
Tetrachloroethene	<	25	ug/L
Trichloroethene	<	25	ug/L
Vinyl Chloride	<	50	ug/L
Surrogate Recoveries			OC Limits
Toluene-da	10:		77-124
4-Bromofluorobenzene	9:		70-123
1,2-Dichloroethane-d4	9	9 %	80-114

< = Compound not detected at or above the listed reporting limit.</p>

TCLP List Semivolatile Organic Compounds - EPA Method 8270

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179103A-C VISTA Sample ID: 913885-003 Sample Type: TCLP Leachate Date Sampled : 07/17/91 Date Received: 07/22/91

TCLP Preparation: 07/23/91 Date Extracted: 07/26/91

Date Analyzed: 08/11/91

Analyte	Result	Reporting <u>Limit</u>	<u>Units</u>
m & p-Cresols	490	20	ug/L
o-Cresol	<	20	ug/L
1,4-Dichlorobenzene	<	20	ug/L
2,4-Dinitrotoluene	<	20	ug/L
Hexachlorobenzene	<	20	ug/L
Hexachlorobutadiene	<	20	ug/L
Hexachloroethane	<	20	ug/L
Nitrobenzene	<	20	ug/L
Pentachlorophenol	<	100	\mathtt{ug}/\mathtt{L}
Pyridine	<	20	ug/L
2,4,5-Trichlorophenol	<	20	ug/L
2,4,6-Trichlorophenol	<	20	ug/L
Surrogate Recoveries			OC Limits
Nitrobenzene-d ₅ 2-Fluorobiphenyl Terphenyl-d ₁₄ Phenol-d ₆ 2-Fluorophenol 2,4,6-Tribromophenol	95 48 54 44 91 57	अर अर अर अर अर	10-142 10-109 36-115 10-121 10-126 10-140

< = Compound not detected at or above the listed reporting limit.</p>

TCLP Metals

Client: EG&G Idaho, Inc. Client Sample ID: 11007179104A-C

VISTA Sample ID: 913885-004 Date Sampled: 07/17/91 Sample Type: TCLP Leachate Date Received: 07/22/91

TCLP Preparation: 07/23/91

		Reporting		
<u>Analyte</u>	Result	Limit	<u>Units</u>	Method
Arsenic	<	0.5	mg/L	6010
Barium	<	5	mg/L	6010
Cadmium	<	0.1	mg/L	6010
Chromium	<	0.1	mg/L	6010
Lead	<	0.5	mg/L	6010
Mercury	<	0.02	mg/L	7470
Selenium	<	0.5	mg/L	6010
Silver	<	0.1	mg/L	6010

< = Analyte not detected at or above the listed reporting limit.</pre>

TCLP List Pesticides EPA Method 8080

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179104A-C

VISTA Sample ID: 913885-004 Sample Type: TCLP Leachate Date Sampled: 07/17/91 Date Received: 07/22/91 TCLP Preparation: 07/23/91

Date Extracted: 07/25/91

Date Analyzed: 08/06/91

Analyte	Result	Reporting <u>Limit</u>	<u>Units</u>
gamma-BHC (Lindane) Chlordane Endrin Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	< < < < < < <	2.0 7.0 3.0 1.5 42 90 120	ug/L ug/L ug/L ug/L ug/L ug/L
Surrogate Recoveries			QC Limits
Dibutyl Chlorendate (DBC)	89	*	20-150

المعارضين والمرازي والمنطورين والمعارض والمراجع والمعارض والمراجع والمراجع والمعارض والمراجع والمعارض والمراجع

< = Compound not detected at or above the listed reporting limit.</p>

TCLP List Chlorinated Herbicides EPA Method 8150

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179104A-C

VISTA Sample ID: 913885-004
Date Sampled : 07/17/91

TCLP Preparation: 07/23/91
Date Extracted: 07/26/91

Date Analyzed: 08/08/91

Date Received: 07/22/91

Sample Type: TCLP Leachate

	Pon	orting
<u>Analyte</u>		imit Units
2,4-D 2,4,5-TP (Silvex)	< 12 < 1	
Surrogate Recoveries		OC Limits
2,4-DCPAA	87 %	37-132

< = Compound not detected at or above the listed reporting limit.</p>

TCLP List Volatile Organic Compounds - EPA Method 8240

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179104A-C

VISTA Sample ID: 913885-004 Sample Type: TCLP Leachate Date Sampled: 07/17/91 Date Received: 07/22/91

ZHE Preparation: 07/24/91 Date Analyzed: 08/06/91

Analyte	Result	Reporting <u>Limit</u>	<u>Units</u>
Benzene Carbon Tetrachloride Chlorobenzene Chloroform 1,1-Dichloroethene 1,2-Dichloroethane Methylethylketone (2-Butanone) Tetrachloroethene Trichloroethene Vinyl Chloride	< < < < < < < < < < < < < < < < < < <	25 25 25 25 25 25 500 25 50	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L
Surrogate Recoveries Toluene-d ₈ 4-Bromofluorobenzene 1,2-Dichloroethane-d ₄	10 9 10	7 %	OC Limits 77-124 70-123 80-114

< = Compound not detected at or above the listed reporting limit.</p>

TCLP List Semivolatile Organic Compounds - EPA Method 8270

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179104A-C VISTA Sample ID: 913885-004 Sample Type: TCLP Leachate Date Sampled : 07/17/91 Date Received: 07/22/91

TCLP Preparation: 07/23/91 Date Extracted: 07/26/91

Date Analyzed: 08/11/91

<u>Analyte</u>	Result	Reporting <u>Limit</u>	<u>Units</u>
m & p-Cresols	52	20	ug/L
o-Cresol	<	20	ug/L
1,4-Dichlorobenzene	<	20	ug/L
2,4-Dinitrotoluene	<	20	ug/L
Hexachlorobenzene	<	20	ug/L
Hexachlorobutadiene	<	20	ug/L
Hexachloroethane	<	20	ug/L
Nitrobenzene	<	20	ug/L
Pentachlorophenol	<	100	ug/L
Pyridine	<	20	ug/L
2,4,5-Trichlorophenol	<	20	ug/L
2,4,6-Trichlorophenol	<	20	ug/L
Surrogate Recoveries			OC Limits
Nitrobenzene-ds	73	*	10-142
2-Fluorobiphenyl	61	%	10-109
Terphenyl-d,	78	ક્ષ	36-115
Phenol-da	59	*	10-121
2-Fluorophenol	95	ફ	10-126
2,4,6-Tribromophenol	64	8	10-140

< = Compound not detected at or above the listed reporting limit.</p>

TCLP Metals

0.5

 ${\tt mg/L}$

mg/L

0.02 mg/L

0.5 mg/L 0.1 mg/L

Result

<

<

<

<

<

<

<

<

Client: EG&G Idaho, Inc.

Client Sample ID: 1007179105A-D

VISTA Sample ID: 913885-005 Date Sampled: 07/17/91

TCLP Preparation: 07/23/91

<u>Analyte</u>

Arsenic

Cadmium

Chromium

Mercury

Selenium Silver

Barium

Lead

Sample Type: TCLP Leachate Date Received: 07/22/91

Reporting Limit	Units	Method	
0.5	mg/L	6010	
5	mg/L	6010	
0.1	mg/L	6010	
0.1	mg/L	6010	

6010

7470

6010

6010

< = Analyte not detected at or above the listed reporting limit.</p>

TCLP List Pesticides EPA Method 8080

Client: EG&G Idaho, Inc.

Client Sample ID: 1007179105A-D

VISTA Sample ID: 913885-005

Date Sampled : 07/17/91 TCLP Preparation: 07/23/91

Date Extracted: 07/25/91

Sample Type: TCLP Leachate

Date Received: 07/22/91

Date Analyzed: 08/06/91

<u>Analyte</u>	Result	Reporting <u>Limit</u>	<u>Units</u>
gamma-BHC (Lindane) Chlordane Endrin Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	< < < < < <	2.0 7.0 3.0 1.5 42 90	ug/L ug/L ug/L ug/L ug/L ug/L ug/L
Surrogate Recoveries			OC Limits
Dibutyl Chlorendate (DBC)	71	*	20-150

< = Compound not detected at or above the listed reporting limit.</p>

TCLP List Chlorinated Herbicides EPA Method 8150

Client: EG&G Idaho, Inc.

Client Sample ID: 1007179105A-D

VISTA Sample ID: 913885-005

Date Sampled : 07/17/91 TCLP Preparation: 07/23/91

Date Extracted: 07/26/91

Sample Type: TCLP Leachate

Date Received: 07/22/91

Date Analyzed: 08/08/91

Analyte	Result	Reporting Limit	<u>Units</u>
2,4-D 2,4,5-TP (Silvex)	< <	120 17	ug/L ug/L
Surrogate Recoveries			OC Limits
2,4-DCPAA	121	ફ	37-132

< = Compound not detected at or above the listed reporting limit.</p>

TCLP List Volatile Organic Compounds - EPA Method 8240

Client: EG&G Idaho, Inc.

Client Sample ID: 1007179105A-D

VISTA Sample ID: 913885-005 Sample Type: TCLP Leachate Date Sampled: 07/17/91 Date Received: 07/22/91

ZHE Preparation: 07/24/91 Date Analyzed: 08/06/91

<u>Analyte</u>	Result	Reporting Limit	<u>Units</u>
Benzene	<	25	ug/L
Carbon Tetrachloride	<	25	ug/L
Chlorobenzene	<	25	ug/L
Chloroform	<	25	ug/L
1,1-Dichloroethene	<	25	ug/L
1,2-Dichloroethane	<	25	ug/L
Methylethylketone (2-Butanone)	<	500	ug/L
Tetrachloroethene	<	25	ug/L
Trichloroethene	<	25	ug/L
Vinyl Chloride	<	50	ug/L
Surrogate Recoveries			OC Limits
Toluene-d ₈	99	9 %	77-124
4-Bromofluorobenzene	98	8 %	70-123
1,2-Dichloroethane-d4	10:	3 %	80-114

< = Compound not detected at or above the listed reporting limit.</p>

TCLP List Semivolatile Organic Compounds - EPA Method 8270

Client: EG&G Idaho, Inc.

Client Sample ID: 1007179105A-D

VISTA Sample ID: 913885-005 Sample Type: TCLP Leachate Date Sampled : 07/17/91 Date Received: 07/22/91

TCLP Preparation: 07/23/91
Date Extracted: 07/26/91

Date Analyzed: 08/11/91

Analyte	Result	Reporting Limit	<u>Units</u>
m & p-Cresols	<	20	ug/L
o-Cresol	<	20	ug/L
1,4-Dichlorobenzene	<	20	ug/L
2,4-Dinitrotoluene	<	20	ug/L
Hexachlorobenzene	<	20	ug/L
Hexachlorobutadiene	<	20	ug/L
Hexachloroethane	<	20	ug/L
Nitrobenzene	<	20	ug/L
Pentachlorophenol	<	100	ug/L
Pyridine	<	20	ug/L
2,4,5-Trichlorophenol	<	20	ug/L
2,4,6-Trichlorophenol	<	20	ug/L
Surrogate Recoveries			OC Limits
Nitrobenzene-ds	80	ક	10-142
2-Fluorobiphenyl	67	ક્ષ	10-109
Terphenyl-d,	79	%	36-115
Phenol-d	58	*	10-121
2-Fluorophenol	98	ક	10-126
2,4,6-Tribromophenol	67	*	10-140

< = Compound not detected at or above the listed reporting limit.

TCLP Metals

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179106A-C

VISTA Sample ID: 913885-006 Sample Type: TCLP Leachate Date Sampled: 07/17/91 Date Received: 07/22/91

TCLP Preparation: 07/23/91

Reporting				
<u>Analyte</u>	Result	Limit	<u>Units</u>	<u>Method</u>
Arsenic	<	0.5	mg/L	6010
Barium	<	5	mg/L	6010
Cadmium	<	0.1	mg/L	6010
Chromium	<	0.1	mg/L	6010
Lead	<	0.5	mg/L	6010
Mercury	<	0.02	mg/L	7470
Selenium	<	0.5	mg/L	6010
Silver	<	0.1	mg/L	6010

< = Analyte not detected at or above the listed reporting limit.</pre>

TCLP List Pesticides EPA Method 8080

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179106A-C

VISTA Sample ID: 913885-006 Sample Type: TCLP Leachate Date Sampled : 07/17/91 Date Received: 07/22/91

TCLP Preparation: 07/23/91
Date Extracted: 07/25/91

Date Analyzed: 08/06/91

Analyte	Result	Reporting <u>Limit</u>	<u>Units</u>
gamma-BHC (Lindane) Chlordane Endrin Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	< < < < < <	2.0 7.0 3.0 1.5 42 90 120	ug/L ug/L ug/L ug/L ug/L ug/L
Surrogate Recoveries			QC Limits
Dibutyl Chlorendate (DBC)	83	ક	20-150

< = Compound not detected at or above the listed reporting limit.</p>

TCLP List Chlorinated Herbicides EPA Method 8150

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179106A-C

VISTA Sample ID: 913885-006
Date Sampled: 07/17/91
TCLP Preparation: 07/23/91
Date Extracted: 07/26/91

Sample Type: TCLP Leachate Date Received: 07/22/91

Date Analyzed: 08/08/91

<u>Analyte</u>	Result	eporting Limit	<u>Units</u>
2,4-D 2,4,5-TP (Silvex)	< :	120 17	ug/L ug/L
Surrogate Recoveries			OC Limits
2,4-DCPAA	84 %		37-132

< = Compound not detected at or above the listed reporting limit.</p>

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179106A-C

VISTA Sample ID: 913885-006 Sample Type: TCLP Leachate Date Sampled: 07/17/91 Date Received: 07/22/91

ZHE Preparation: 07/24/91 Date Analyzed: 08/06/91

Analyte	Result	Reporting Limit	<u>Units</u>
Benzene	<	25	ug/L
Carbon Tetrachloride	<	25	ug/L
Chlorobenzene	<	25	ug/L
Chloroform	<	25	\mathtt{ug}/\mathtt{L}
1,1-Dichloroethene	<	25	ug/L
1,2-Dichloroethane	<	25	ug/L
Methylethylketone (2-Butanone)	(33)*	500	ug/L
Tetrachloroethene	<	25	\mathtt{ug}/\mathtt{L}
Trichloroethene	<	25	\mathtt{ug}/\mathtt{L}
Vinyl Chloride	<	50	ug/L
Surrogate Recoveries			OC Limits
Toluene-d _s	99)	77-124
4-Bromofluorobenzene	111	-	70-123
1,2-Dichloroethane-d4	101	L %	80-114

^{*} Detected below reporting limit; quantitation may be unreliable.

< = Compound not detected at or above the listed reporting limit.

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179106A-C

VISTA Sample ID: 913885-006 Sample Type: TCLP Leachate Date Sampled : 07/17/91 Date Received: 07/22/91

TCLP Preparation: 07/23/91 Date Extracted: 07/26/91

Date Analyzed: 08/11/91

<u>Analyte</u>	Result	Reporting <u>Limit</u>	<u>Units</u>
m & p-Cresols	210	20	ug/L
o-Cresol	<	20	ug/L
1,4-Dichlorobenzene	<	20	\mathtt{ug}/\mathtt{L}
2,4-Dinitrotoluene	<	20	\mathtt{ug}/\mathtt{L}
Hexachlorobenzene	<	20	ug/L
Hexachlorobutadiene	<	20	ug/L
Hexachloroethane	<	20	ug/L
Nitrobenzene	<	20	ug/L
Pentachlorophenol	<	100	ug/L
Pyridine	<	20	ug/L
2,4,5-Trichlorophenol	<	20	ug/L
2,4,6-Trichlorophenol	<	20	ug/L
Surrogate Recoveries			OC Limits
Nitrobenzene-d ₅	71	*	10-142
2-Fluorobiphenyl	68	8	10-109
Terphenyl-d ₁₄	75 5.6	9	36-115
Phenol-d ₆	56	3	10-121
2-Fluorophenol	97	ક ક	10-126
2,4,6-Tribromophenol	74	ъ	10-140

< = Compound not detected at or above the listed reporting limit.</p>

TCLP Metals

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179107A-D VISTA Sample ID: 913885-007 Date Sampled: 07/17/91 Sample Type: TCLP Leachate Date Received: 07/22/91

TCLP Preparation: 07/23/91

<u>Analyte</u>	Result	Reporting <u>Limit</u>	<u>Units</u>	<u>Method</u>
Arsenic	<	0.5	mg/L	6010
Barium	<	5	mg/L	6010
Cadmium	<	0.1	mg/L	6010
Chromium	<	0.1	mg/L	6010
Lead	<	0.5	mg/L	6010
Mercury	<	0.02	mg/L	7470
Selenium	<	0.5	mg/L	6010
Silver	<	0.1	mg/L	6010

< = Analyte not detected at or above the listed reporting limit.

TCLP List Pesticides EPA Method 8080

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179107A-D

VISTA Sample ID: 913885-007 Sample Type: TCLP Leachate Date Sampled : 07/17/91 Date Received: 07/22/91

TCLP Preparation: 07/23/91
Date Extracted: 07/25/91

Date Analyzed: 08/06/91

<u>Analyte</u>	Result	Reporting Limit	<u>Units</u>
gamma-BHC (Lindane) Chlordane Endrin Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	< < < < < <	2.0 7.0 3.0 1.5 42 90 120	ug/L ug/L ug/L ug/L ug/L ug/L
Surrogate Recoveries			OC Limits
Dibutyl Chlorendate (DBC)	88	8	20-150

< = Compound not detected at or above the listed reporting limit.</p>

TCLP List Chlorinated Herbicides EPA Method 8150

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179107A-D

VISTA Sample ID: 913885-007

Date Sampled: 07/17/91 TCLP Preparation: 07/23/91 Date Extracted: 07/26/91 Sample Type: TCLP Leachate

Date Received: 07/22/91

Date Analyzed: 08/08/91

<u>Analyte</u>	<u>Result</u>	Reporting Limit	<u>Units</u>
2,4-D 2,4,5-TP (Silvex)	< <	120 17	ug/L ug/L
Surrogate Recoveries			QC Limits
2,4-DCPAA	84	8	37-132

< = Compound not detected at or above the listed reporting limit.</p>

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179107A-D

VISTA Sample ID: 913885-007 Sample Type: TCLP Leachate Date Sampled: 07/17/91 Date Received: 07/22/91

ZHE Preparation: 07/24/91 Date Analyzed: 08/06/91

<u>Analyte</u>	<u>Result</u>	Reporting Limit	<u>Units</u>
Benzene Carbon Tetrachloride Chlorobenzene Chloroform 1,1-Dichloroethene 1,2-Dichloroethane Methylethylketone (2-Butanone) Tetrachloroethene Trichloroethene Vinyl Chloride	<	25 25 25 25 25 25 500 25 25	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L
Surrogate Recoveries Toluene-d ₈ 4-Bromofluorobenzene 1,2-Dichloroethane-d ₄	10: 9: 10:	7 %	OC Limits 77-124 70-123 80-114

^{*} Detected below reporting limit; quantitation may be unreliable.

< = Compound not detected at or above the listed reporting limit.</p>

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179107A-D

VISTA Sample ID: 913885-007 Sample Type: TCLP Leachate Date Sampled : 07/17/91 Date Received: 07/22/91

TCLP Preparation: 07/23/91

Date Extracted: 07/26/91 Date Analyzed: 08/11/91

<u>Analyte</u>	Result	Reporting <u>Limit</u>	<u>Units</u>
m & p-Cresols	<	20	ug/L
o-Cresol	<	20	ug/L
1,4-Dichlorobenzene	<	20	ug/L
2,4-Dinitrotoluene	<	20	ug/L
Hexachlorobenzene	<	20	ug/L
Hexachlorobutadiene	<	20	ug/L
Hexachloroethane	<	20	ug/L
Nitrobenzene	<	20	ug/L
Pentachlorophenol	<	100	ug/L
Pyridine	<	20	\mathtt{ug}/\mathtt{L}
2,4,5-Trichlorophenol	<	20	\mathtt{ug}/\mathtt{L}
2,4,6-Trichlorophenol	<	20	ug/L
Surrogate Recoveries			OC Limits
Nitrobenzene-d ₅	70	%	10-142
2-Fluorobiphenyl	58	ક	10-109
Terphenyl-d ₁₄	76	ક	36-115
Phenol-d ₆	58	ક	10-121
2-Fluorophenol	96	*	10-126
2,4,6-Tribromophenol	64	*	10-140

< = Compound not detected at or above the listed reporting limit.</p>

QUALITY ASSURANCE

TCLP Metals

Client: EG&G Idaho, Inc.

Client Sample ID: NA
VISTA Sample ID: 913885-Blank Sample Type: TCLP Leachate

Date Sampled : NA

TCLP Preparation: 07/23/91

Date Received: NA

<u>Analyte</u>	<u>Result</u>	Reporting <u>Limit</u>	<u>Units</u>	<u>Method</u>
Arsenic	<	0.5	mg/L	6010
Barium	<	5	mg/L	6010
Cadmium	<	0.1	mg/L	6010
Chromium	<	0.1	mg/L	6010
Lead	<	0.5	mg/L	6010
Mercury	<	0.02	mg/L	7470
Selenium	<	0.5	mg/L	6010
Silver	<	0.1	mg/L	6010

NA = Not Applicable < = Analyte not detected at or above the listed reporting limit.</pre>

Quality Assurance TCLP Metals Duplicate Analyses

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179101A-D VISTA Sample ID: 913885-001 Sample Type: TCLP Leachate Date Sampled: 07/17/91 Date Received: 07/22/91

Sample Duplicate Result Result Analyte (mq/L) (mg/L) <u>RPD</u> Method Arsenic 6010 ND ND NA Barium ND ND NA 6010 Cadmium ND ND NA 6010 Chromium ND ND NA 6010 Lead ND ND NA 6010 Mercury ND ND NA 7470 Selenium ND ND NA 6010 Silver ND ND NA 6010

RPD = Relative Percent Difference

ND = Not detected at or above the reporting limit.

NA = Not Applicable

Quality Assurance TCLP Metals Spike Sample Recovery

Client: EG&G Idaho, Inc.

Client Sample ID: 11007179101A-D VISTA Sample ID: 913885-001 Date Sampled: 07/17/91 Sample Type: TCLP Leachate

Date Received: 07/22/91

<u>Analyte</u>	Spike Added (mg/L)	Sample Conc. (mg/L)	Spike Conc. (mg/L)	<u> ዩ Rec</u>	QC Limits <u>% Rec</u>
Arsenic	2.0	ND	2.2	110	75-125
Barium	2.0	ND	2.2	110	75-125
Cadmium	0.50	ND	0.56	112	75-125
Chromium	0.50	ND	0.55	110	75-125
Lead	1.0	ND	1.1	110	75-125
Mercury	0.020	ND	0.023	115	75-125
Selenium	2.0	ИD	2.4	120	75-125
Silver	0.50	ND	0.50	100	50-150

ND = Not detected at or above the reporting limit.

Quality Assurance TCLP Metals Laboratory Control Sample Results

Client: EG&G Idaho, Inc. VISTA Sample ID: 913885-LCS

<u>Analyte</u>	True Value (mg/L)	Sample Result (mg/L)	<u> የ Rec</u>	QC Limits % Rec
Arsenic	2.0	2.0	100	75-125
Barium	2.0	2.0	100	75-125
Cadmium	0.50	0.53	106	75-125
Chromium	0.50	0.51	102	75-125
Lead	1.0	1.03	103	75-125
Mercury	0.0020	0.0022	110	75-125
Selenium	2.0	2.0	100	75 - 125
Silver	0.50	0.47	94	50-150

TCLP List Pesticides EPA Method 8080

Client: EG&G Idaho, Inc.

Client Sample ID: NA

VISTA Sample ID: 913885-Blank Sample Type: Water

Date Sampled : NA

Date Extracted: 07/25/91

Date Received: NA

Date Analyzed: 08/06/91

Analyte	Result	Reporting <u>Limit</u>	<u>Units</u>
gamma-BHC (Lindane) Chlordane Endrin Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	< < < < < < <	2.0 7.0 3.0 1.5 42 90 120	ug/L ug/L ug/L ug/L ug/L ug/L
Surrogate Recoveries			OC Limits
Dibutyl Chlorendate (DBC)	53	ે	41-140

NA = Not Applicable < = Compound not detected at or above the listed reporting limit.</p>

TCLP List Pesticides EPA Method 8080

Client: EG&G Idaho, Inc.

Client Sample ID: NA

VISTA Sample ID: 913885-Blank Sample Type: TCLP Leachate Date Sampled: NA Date Received: NA

TCLP Preparation: 07/23/91

Date Extracted: 07/25/91

Date Analyzed: 08/06/91

<u>Analyte</u>	Result	Reporting <u>Limit</u>	<u>Units</u>
gamma-BHC (Lindane) Chlordane Endrin Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	< < < < < <	2.0 7.0 3.0 1.5 42 90 120	ug/L ug/L ug/L ug/L ug/L ug/L
Surrogate Recoveries			OC Limits
Dibutyl Chlorendate (DBC)	71	%	20-150

NA = Not Applicable < = Compound not detected at or above the listed reporting limit.</p>

Quality Assurance Organochlorine Pesticides - Method 8080 Matrix Spike Recovery and Precision

Client: EG&G Idaho, Inc. Client Sample ID: NA

VISTA Sample ID: 913885-BLSP

Date Sampled : NA

Date Extracted: 07/25/91

Sample Type: Water Date Received: NA

Date Analyzed: 08/06/91

			· · · · · · · · · · · · · · · · · · ·			
Compound	Spike Added (ug/L)	Sample Conc. (ug/L)	MS Conc. (ug/L)	MS % Rec	Lim	C its <u>Rec</u>
gamma-BHC (Lindane) Heptachlor Aldrin Dieldrin Endrin 4,4'-DDT	0.20 0.20 0.20 0.50 0.50	ND ND ND ND ND	0.184 0.137 0.128 0.494 0.500 0.477	92 69 64 99 100 95	33-147 33-132 33-120 38-100 43-138 37-125	
Compound	Spike Added <u>(ug/L)</u>	MSD Conc. (ug/L)	MSD % Rec	<u>RPD</u>	QC Limits <u>RPD % Rec</u>	
gamma-BHC (Lindane) Heptachlor Aldrin Dieldrin Endrin 4,4'-DDT	0.20 0.20 0.20 0.50 0.50	0.201 0.134 0.139 0.502 0.482 0.491	101 67 70 100 96 98	9 3 9 1 4 3	14 26 17 29 26 28	33-147 33-132 33-120 38-100 43-138 37-125

NA = Not Applicable
ND = Not Detected
MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

TCLP List Chlorinated Herbicides EPA Method 8150

Client: EG&G Idaho, Inc.

Client Sample ID: NA

VISTA Sample ID: 913885-Blank Sample Type: Water

Date Sampled : NA

Date Extracted: 07/26/91

Date Received: NA

Date Analyzed: 08/07/91

Analyte	<u>Result</u>	Reporting <u>Limit</u>	<u>Units</u>
2,4-D 2,4,5-TP (Silvex)	< <	120 17	ug/L ug/L
Surrogate Recoveries			OC Limits
2,4-DCPAA	75	š	41-122

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NA = Not Applicable < = Compound not detected at or above the listed reporting limit.

TCLP List Chlorinated Herbicides EPA Method 8150

Client: EG&G Idaho, Inc.

Client Sample ID: NA

VISTA Sample ID: 913885-Blank Sample Type: TCLP Leachate Date Sampled : NA Date Received: NA

TCLP Preparation: 07/23/91 Date Extracted: 07/26/91

Date Analyzed: 08/07/91

Analyte	<u>Result</u>	Reporting Limit	<u>Units</u>
2,4-D 2,4,5-TP (Silvex)	< <	120 17	ug/L ug/L
Surrogate Recoveries			OC Limits
2,4-DCPAA	78	%	37-132

NA = Not Applicable < = Compound not detected at or above the listed reporting limit.</p>

Quality Assurance Chlorinated Herbicides - Method 8150 Matrix Spike Recovery and Precision

Client: EG&G Idaho, Inc.

Client Sample ID: NA

Date Extracted: 07/26/91

VISTA Sample ID: 913885-BLSP Sample Type: Water Date Sampled: NA Date Received: NA

Date Received: NA Date Analyzed: 08/07/91

Compound		Spike Added (uq/L)	Sample Conc. (ug/L)	MS Conc. (ug/L)	MS % Rec	Q Lim	
2,4-D 2,4,5-TP	(Silvex)	10	ИD D	9.49 0.750	95 75		-130 -136
Compound		Spike Added <u>(ug/L)</u>	MSD Conc. (ug/L)	MSD % Rec	<u>RPD</u>	Q Lim <u>RPD</u>	C its <u>% Rec</u>
2,4-D 2,4,5-TP	(Silvex)	10 1.0	9.43 0.772	94 77	1 3	61 41	10-130 21-136

NA = Not Applicable ND = Not Detected

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

Client: EG&G Idaho, Inc. Client Sample ID: NA

VISTA Sample ID: 913885-Blank Sample Type: Water

Date Sampled : NA

Date Analyzed: 08/06/91

Sample Type: Water Date Received: NA

<u>Analyte</u>	Result	Reporting <u>Limit</u>	<u>Units</u>
Benzene Carbon Tetrachloride Chlorobenzene	< < <	25 25 25	ug/L ug/L ug/L
Chloroform 1,1-Dichloroethene	< <	25 25	ug/L ug/L
1,2-Dichloroethane Methylethylketone (2-Butanone) Tetrachloroethene	< < <	25 500 25	ug/L ug/L ug/L
Trichloroethene Vinyl Chloride	< <	25 50	ug/L ug/L
Surrogate Recoveries			OC Limits
Toluene-d ₈ 4-Bromofluorobenzene 1,2-Dichloroethane-d ₄	10 9 10	3 %	88-112 88-113 86-114

NA = Not Applicable < = Compound not detected at or above the listed reporting limit.

Client: EG&G Idaho, Inc. Client Sample ID: NA

VISTA Sample ID: 913885-Blank Sample Type: Water

Date Sampled : NA

Date Received: NA

Date Analyzed: 08/15/91

<u>Analyte</u>	Result	eporting <u>Limit</u>	<u>Units</u>
Benzene Carbon Tetrachloride Chlorobenzene Chloroform 1,1-Dichloroethene 1,2-Dichloroethane Methylethylketone (2-Butanone) Tetrachloroethene Trichloroethene Vinyl Chloride	<pre><</pre>	25 25 25 25 25 25 500 25 25	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L
Surrogate Recoveries Toluene-d ₈ 4-Bromofluorobenzene 1,2-Dichloroethane-d ₄	111 100 93	% % %	OC Limits 88-112 88-113 86-114

^{*} Detected below reporting limit; quantitation may be unreliable. NA = Not Applicable

< = Compound not detected at or above the listed reporting limit.

Client: EG&G Idaho, Inc. Client Sample ID: NA

VISTA Sample ID: 913885-Blank Sample Type: TCLP Leachate

Date Sampled : NA

ZHE Preparation: 07/24/91 Date Analyzed: 08/16/91

Date Received: NA

Analyte	Result	eporting <u>Limit</u>	<u>Units</u>
Benzene Carbon Tetrachloride Chlorobenzene Chloroform 1,1-Dichloroethene 1,2-Dichloroethane Methylethylketone (2-Butanone) Tetrachloroethene Trichloroethene Vinyl Chloride	<pre></pre>	25 25	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L
Surrogate Recoveries Toluene-d ₈ 4-Bromofluorobenzene 1,2-Dichloroethane-d ₄	102 89 87	<i>ૹ</i>	OC Limits 77-124 70-123 80-114

^{*} Detected below reporting limit; quantitation may be unreliable. NA = Not Applicable

< = Compound not detected at or above the listed reporting limit.</p>

Client: EG&G Idaho, Inc. Client Sample ID: NA

VISTA Sample ID: 913885-Blank Sample Type: TCLP Leachate

Date Sampled : NA

ZHE Preparation: 07/29/91 Date Analyzed: 08/06/91

Date Received: NA

Analyte	Result	Reporting <u>Limit</u>	<u>Units</u>
Benzene	<	25	ug/L
Carbon Tetrachloride	<	25	ug/L
Chlorobenzene	<	25	ug/L
Chloroform	<	25	ug/L
1,1-Dichloroethene	<	25	ug/L
1,2-Dichloroethane	<	25	ug/L
Methylethylketone (2-Butanone)	<	500	ug/L
Tetrachloroethene	<	25	ug/L
Trichloroethene	<	25	ug/L
Vinyl Chloride	<	50	ug/L
Surrogate Recoveries			OC Limits
Toluene-d _g	95	ક	77-124
4-Bromofluorobenzene	94	ક	70-123
1,2-Dichloroethane-d4	97	*	80-114

NA = Not Applicable < = Compound not detected at or above the listed reporting limit.</p>

Quality Assurance Volatile Organics - EPA Method 8240 Matrix Spike Recovery and Precision

Client: EG&G Idaho, Inc. Client Sample ID: NA

VISTA Sample ID: 913885-BLSP

Date Sampled : NA

Date Analyzed: 08/06/91

Sample Type: Water Date Received: NA

Compound	Spike Added (ug/L)	Sample Conc. (uq/L)	MS Conc. (ug/L)		Lim	C iits Rec
1,1-Dichloroethene Benzene Trichloroethene Toluene Chlorobenzene	50 50 50 50 50	ND ND ND ND	50.3 51.2 48.8 49.0 50.7	101 102 98 98 101	88 86 84	-113 -111 -115 -117 -110
Compound	Spike Added (ug/L)	MSD Conc. (uq/L)	MSD % Rec	<u>RPD</u>		C its <u>% Rec</u>
1,1-Dichloroethene Benzene Trichloroethene Toluene Chlorobenzene	50 50 50 50 50	46.3 50.1 47.3 52.5 51.5	93 100 95 105 103	8 2 3 7 2	10 6 5 7 5	60-113 88-111 86-115 84-117 87-110

NA = Not Applicable ND = Not Detected MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

Quality Assurance Volatile Organics - EPA Method 8240 Matrix Spike Recovery and Precision

Client: EG&G Idaho, Inc.

Client Sample ID: NA VISTA Sample ID: NA Date Sampled : NA

Date Analyzed: 08/15/91

Sample Type: Water Date Received: NA

Compound	Spike Added (ug/L)	Sample Conc. (ug/L)	MS Conc. (ug/L)	MS % Rec	Lim	C its Rec
1,1-Dichloroethene Benzene Trichloroethene Toluene Chlorobenzene	50 50 50 50 50	ND ND ND ND	49.3 54.0 54.2 53.1 49.3	99 108 108 106 99	88 86 84	-113 -111 -115 -117 -110
<u>Compound</u>	Spike Added (ug/L)	MSD Conc. (ug/L)	MSD % Rec	<u>RPD</u>	Q Lim <u>RPD</u>	C its <u>% Rec</u>
1,1-Dichloroethene Benzene Trichloroethene Toluene Chlorobenzene	50 50 50 50	50.8 53.0 53.0 52.2 47.9	102 106 106 104 96	3 2 2 2 3	10 6 5 7 5	60-113 88-111 86-115 84-117 87-110

NA = Not Applicable ND = Not Detected MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

Client: EG&G Idaho, Inc. Client Sample ID: NA

VISTA Sample ID: 913885-Blank Sample Type: Water

Date Sampled : NA

Date Extracted: 07/26/91

Date Received: NA

Date Analyzed: 08/06/91

Analyte	Result	Reporting <u>Limit</u>	<u>Units</u>
m & p-Cresols	<	20	ug/L
o-Cresol	<	20	${ t ug/L}$
1,4-Dichlorobenzene	<	20	ug/L
2,4-Dinitrotoluene	<	20	ug/L
Hexachlorobenzene	<	20	ug/L
Hexachlorobutadiene	<	20	ug/L
Hexachloroethane	<	20	ug/L
Nitrobenzene	<	20	ug/L
Pentachlorophenol	<	100	ug/L
Pyridine	<	20	ug/L
2,4,5-Trichlorophenol	<	20	ug/L
2,4,6-Trichlorophenol	<	20	ug/L
Surrogate Recoveries			OC Limits
Nitrobenzene-d ₅ 2-Fluorobiphenyl Terphenyl-d ₁₄ Phenol-d ₆ 2-Fluorophenol 2,4,6-Tribromophenol	63 57 62 29 43 92	ক ক ক ক ক ক ক	37-95 34-95 48-100 10-53 10-79 10-149

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NA = Not Applicable < = Compound not detected at or above the listed reporting limit.</p>

Client: EG&G Idaho, Inc.

Client Sample ID: NA

VISTA Sample ID: 913885-Blank Sample Type: TCLP Leachate

Date Sampled : NA

TCLP Preparation: 07/23/91 Date Extracted: 07/26/91

Date Received: NA

Date Analyzed: 08/11/91

<u>Analyte</u>	Result	Reporting <u>Limit</u>	<u>Units</u>
m & p-Cresols	<	20	ug/L
o-Cresol	<	20	ug/L
1,4-Dichlorobenzene	<	20	ug/L
2,4-Dinitrotoluene	<	20	ug/L
Hexachlorobenzene	<	20	ug/L
Hexachlorobutadiene	<	20	\mathtt{ug}/\mathtt{L}
Hexachloroethane	<	20	ug/L
Nitrobenzene	<	20	ug/L
Pentachlorophenol	<	100	ug/L
Pyridine	<	20	ug/L
2,4,5-Trichlorophenol	<	20	ug/L
2,4,6-Trichlorophenol	<	20	ug/L
Surrogate Recoveries			OC Limits
Nitrobenzene-d ₅ 2-Fluorobiphenyl Terphenyl-d ₁₄ Phenol-d ₆ 2-Fluorophenol 2,4,6-Tribromophenol	74 54 78 55 89 58	% कर कर कर कर कर	10-142 10-109 36-115 10-121 10-126 10-140

NA = Not Applicable < = Compound not detected at or above the listed reporting limit.</p>

Quality Assurance Semivolatile Organics - EPA Method 8270 Matrix Spike Recovery and Precision

Client: EG&G Idaho, Inc. Client Sample ID: NA

VISTA Sample ID: 913885-BLSP

Date Sampled : NA

Date Extracted: 07/26/91

Sample Type: Water Date Received: NA

Date Analyzed: 08/06/91

4 - 12 12 12 13 14 14 14 14 14 14 14						
Compound	Spike Added (ug/L)	Sample Conc. (ug/L)	MS Conc. (ug/L)	MS % Rec	Lim	C iits <u>Rec</u>
Phenol 2-Chlorophenol 1,4-Dichlorobenzene Di-n-propylnitrosamine 1,2,4-Trichlorobenzene 4-Chloro-3-methylphenol Acenaphthene 4-Nitrophenol	200 200 100 100 200 100 200	ND ND ND ND ND ND ND	92.0 176 45.4 113 40.5 184 98.5 88.3	46 88 45 113 41 92 99 44	24 25 32 29 21 35	-77 -98 -89 -101 -98 -110 -128
2,4-Dinitrotoluene Pentachlorophenol Pyrene Compound	100 200 100 Spike Added (ug/L)	ND ND ND MSD Conc. (uq/L)	65.2 185 64.8 MSD % Rec	65 93 65 RPD	34 40 Q	-113 -118 -114 C its <u>% Rec</u>
Phenol 2-Chlorophenol 1,4-Dichlorobenzene Di-n-propylnitrosamine 1,2,4-Trichlorobenzene 4-Chloro-3-methylphenol Acenaphthene 4-Nitrophenol 2,4-Dinitrotoluene Pentachlorophenol Pyrene	200 200 100 100 100 200 100 200 100	86.1 170 44.9 112 44.3 185 92.7 81.9 63.1 174 65.4	43 85 45 112 44 93 93 41 63 87	7 3 0 1 7 1 6 7 3 7	20 14 15 20 17 28 18 50 24 22 23	10-77 24-98 25-89 32-10 29-98 21-11 35-12 10-78 15-11 34-11

NA = Not Applicable

ND = Not Detected MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference



"Providing research and development services to the government"

INTEROFFICE CORRESPONDENCE

Date:

July 29, 1991

To:

J. A. Johnson, MS 4133

From:

T. J. Haney, MS 7111-

Subject: GAMMA ANALYSIS OF SEVEN RWMC SEPTIC TANK SAMPLES - TJH-75-91

Four liquid and three semi-solid septic tank samples from the RWMC were submitted to the Radiation Measurements Laboratory (RML) for an analysis to determine whether any gamma-ray-emitting radionuclide contaminants were present. The solid samples were counted in the 500cc squat jar soil geometry for two hours. The liquid samples were counted for 16 hours in a 540ml liquid bottle geometry. The samples were counted on RML gamma-spectrometers and were analyzed by the gamma-spectrometric analysis program VAX/CBAT. The results of the analyses of these samples are listed below.

Sample ID	RML ID	Manmade Radionuclides	Activity(T) (pCi/gm)
11007179106D	A6072391024	None Detected	N/A
11007179104D	A5072591022	None Detected	N/A
11007179101E	A6072591023	None Detected	N/A
11007179103D	A5072691028	None Detected	N/A
11007179102E	. D3072291074	None Detected	N/A
11007179105E	D1072291072	None Detected	N/A
11007179107E	D2072291073	None Detected	N/A

The analysis results were carefully examined by experienced and trained gamma spectroscopists. No manmade gamma-emitting radionuclide contaminants were detected in these samples.

max

cc:

L. D. Koeppen DK

C. L. Rowsell Central Files T. J. Haney File

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Requisition For Purchase Of Materials And Services

752307

DO NOT WRITE IN SHADED AREAS

Instructions On Back

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DATE/TIME DATE/TIME Received by: (Signature) Received by: (Signature) RECEIVED BY ANALYST POH C90132919-009 PEST/HERBS TCLP VOA, SEMI-TCLP VOA, SEMI VOA, METALS, PEST/HEABS PEMARKS Relinquished by: (Signature) Relinquished by: (Signature) O TOS Sno inox SAMPLE LOCATION SAMPLING EMS-11(PROJECT NAME LVB Q-AFOIPFIFOOI 1007179106A-C SAMPLE NO.

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SAMPLEN (Bignature)	PROJECT NAME: EMS-110	FO# C90132919-009
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11007179101A-D	7/7/7 1124 X WM	517 X TCLP VOA, OO/
11007179102A-D	7/7/7, 1200 8 Wr	PEST/HERBS
11007179103A-C	7/17/1545 X WM 6	PEST /HERT3S
1,1007179104A-C	7/17/2 1440 X WA	PEST/HERBS 1 OF SEMI VON, METALS 1
11007179105 A-D	7/7/ 1507 W	OF PEST/HERBS 1 OI & TCLP VOA, 1005 SEMIVOA, METAS 1
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0030T - EMS-110-91 (cont.)	Continued From Page 88
[IMF-613] (ISO Pring	o) (Bucket # 168)
hile pulling samples for the So	1.ds out of wmx 6/3 HANK
iguid began to Kill into the holes	made by the dipper It was
Jecus ded that liquid Somether &	muld be taken using 745 liqu
-The liquid was Sampled using	1 Perishaltis Rama 15 discribe
12 41 5 4 Plan EMS- 110-91.	The liquid was pumped into
12 the 5's A Plan EMS- 110-91.	wand in to the sample lands;
emple ID Analysis Conta	siner Time Int Pre
	MI AGS 15451440 10218712 &
	MI ACB 1545/140 1021872 4
1071791036 TCUP VTA 1000H	-1 ACB 1545,40 109301 4
17-24)	1 cape 1515140 N/A
WMF-(001) (FSCO RIP)	Bucket =)
Approximately 2" TO3" of Sludge was	found on top of the liquid in
the TANK! The liquid lins Samp	
5 i A Plan. The liquid was proper	
and then Pumped into the Snorph	e Confiners
mple ID = Azing 513 Conta	iver Time, 4400 052 - Pre
	mi 468 \$1545 10218712 1.
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: 7179104C TCLP VOA 1000	MC AGB 144445 10230601 6
7071791047 Grass Alpha Prata/Grans from 540.	m & 2005 144545 14/4 1
(Spoon #60)	Pan #167)
The Soltd's were Sampled wing	A 5000n to collected the
material on the top of the Tax	
12 to 4 Stainless Steel PAN (=167).	The malerial was mixed And
placed into the Sample Containers	
	Continued on Page 9(
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3igned Date Signed Date

	Notebook No.
OJECT EMS- 110-91 RWMC Septic TANK	Continued From Page Mild.
DATE 07/17/91 WM	F-617
	(K # 143)
	(62)
PEGNESTER: S. Ivench Samples: Peresin long	
(WMF-617) (MAN HOLE)	
FIRST Sample Collected WAS TAKEN From 1	UMP-617 The
Carr was Prinoved and only a small amo	
Found To be in the Took. The Samo	
AS 10 Shidge The material was Same	alked Following the
Corrisponding 5 = A Plan EMS-110-91. (D	poer =143) The
maleral was collected in on sharing	DAN MIXED AND
Dlarke in the sample containers	
Sample ID AND/4515 Container	TIME COT Pres
1007/7910 (A TCLPIMETAIS SOO MI WING	1124 K0241013
100717910 BI TOUP Semi-lion SD in 1 Wince	1124 40241013
1007179101 C TELP REST HAB SOU MI WINCE	1124 X0241015 4
11007(791011 D) TCCP VOR 125 m1 WMG	1124 8323113 4
11007179101 E Command Betal SHO MI HOPE	1124 1/14 1/1
TRIA	
	(Spoon 41)
The Second Sample was Collected from	WMF-613. The Cover
	the only material
Found in the TAUK. This Sample, as the I	
A Solid. The material was collected using	
In The SEA Plan EMS-114- 71. (Dipoer) The malerial WAS
Collected in an plyminum Daw Mired Al	ad places in the Sample
Containers	
	Time Lot # P.
SAMPLE ID ANALYSIS CONTAINE	
11007179102A TCLA METALS . SOO WILLIAMS	1200 X0241013
11007179102C TCCP Seni 1/14 SO CAL WINGS	1200 x0241015
11007179102C 7CLP SON 125 MC WINGS	1200 720-125
11001179102 E Gross Aleta Bela Comme 500 ML ADPE	1200 N/A Continued on Page
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- y the Pulp and Proper Industry
 12. 1987.
 13. ESTIMATES of Waste Generation
 by the Synthetic Fibers Industry''.
 14. 1987.
 15. EPA. "Estimates of Waste Generation
 by the Synthetic Fibers Industry''.
 16. 1987.

 - 23. U.S. EPA, "Synthetic Rubber Industry", November 1987.
 - JO. U.S. EPA, "Wastewater Treatment Profiles for Industrial Sectors Impacted by Proposed Toxicity Characteristic". August 19, 1988.
 - 31. U.S. EPA, "Wastewater Treatment Profiles for Industrial Sectors Impacted by Proposed Toxicity Characteristic". August 24, 1988.
 - 22. U.S. EPA, "Liner Location Risk and Cost Analysis Model, Phase IIT, Draft Report, 1966.
 - 33. U.S. EPA, "Composition and Management of Used Oil Generated in the United. States", September 1984.
 - 04, U.S. EPA, "Risk Assessment of Proposed Waste Oil Standards for the Management of Used Oil", August 1985.

List of Subjects in 40 CFR Parts 281, 264, 265, 258, 271, and 302

Administrative practice and procedure. Air pollution control. Chemicals, Confidential business information. Hazardous materials transportation. Hazardous substances. Hazardous waste, Indian lands. Intergovernmental relations: Natural resources. Nuclear materials. Penalties. Pesticides and pests. Radioactive materials. Recycling, Reporting and recordkeeping requirements. Superfund. Water pollution control. Water supply, Waste treatment and disposal.

Dated: March 5, 1990. William K. Reilly.

Administrator.

For the reasons set out in the preamble. Chapter I of Title 40 of the Code of Federal Regulations is amended as follows:

PART 251-IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

1. The authority citation for part 281 continues to read as follows:

Authority: 42 U.S.C. 8905, 6912(a), 6927, and 6922.

2. Section 281.4 is amended by revising paragraphs (b)(6)(i) introductory text, and (b)(9) and by adding paragraph (b)(10) to read asfollows:

§ 251.4 Exclusions,

(b) · · ·

(6)(i) Wastes which fail the test for the Toxicity Characteristic because chromium is present or are listed in

subpart D due to the presence of chromium, which do not fail the test for the Toxicity Characteristic for any other constituent or are not listed due to the presence of any other constituent, and which do not fail the test for any other characteristic, if it is shown by a waste generator or by waste generators that:

- (9) Solid wasta which consists of discarded wood or wood products which fails the test for the Toxicity Characteristic solely for arsenic and which is not a hazardous waste for any other reason or reasons, if the waste is generated by persons who utilize the arsenical-treated wood and wood products for these materials' intended end use.
- (10) Petroleum-contaminated media and debris that fail the test for the Toxicity Characteristic of \$ 251.24 and are subject to the corrective action regulations under part 250 of this chapters
- 3. Section 281.8 is added to subpart A to read as follows:

§ 261.8. PCB Wastes Requisted Under Taxic Substance Control Act

The disposal of PCB-containing dielectric fluid and electric equipment. containing such fluid authorized for use and regulated under part 781 of this chapter and that are hazardous only because they fail the test for the Toxicity Characteristic (Hazardous Waste Codes D018 through D043 only): are exempt from regulation under parts 261 through 265, and parts 268, 270, and 124 of this chapter, and the notification requirements of section 3010 of RCRA.

4. Section 261.24 is revised to read as follows:

§ 261.24 Toxicity characteristic...

- (a) A solid waste exhibits the characteristic of toxicity if, using the test methods described in Appendix II or equivalent methods approved by the Administrator under the procedures set forth in §§ 260.20 and 260.21, the extract from a representative sample of the waste contains any of the contaminants listed in Table 1 at the concentration equal to or greater than the respective value given in that Table. Where the waste contains less than 0.5 percent filterable solids, the waste itself after filtering using the methodology outlined in Appendix IL is considered to be the extract for the purpose of this section:
- (b) A solid waste that exhibits the characteristic of toxicity, but is not listed as a hazardous waste in subpart D. has the EPA Hazardous Waste-Number specified in Table 1 which.

corresponds to the toxic contaminant causing it to be hazardous.

TABLE 1 .- MAXIMUM CONCENTRATION OF CONTAMINANTS FOR THE TOXICITY CHARACTERISTIC

EPA HW No.1	Contaminant	CAS No.2	Regula- tory Laves (mg/L)
D004	Arsenic #S	7440-38-2	5,0
D005	Banum at	7440-39-3	
0019	Serzene	71-43-2	0.5
C008	Cagmum At	740-13-9	1.0
C019	Carpon	55-22-5	3.5
5013	tetracmonde.		4,5
0020	Chlordane	57-74-9	0.03
C027	Chloropenzene		100.0
0022	- Chioroform		
D007	Chromium		5.0.
CC23	0-C/esol		200.0
D024	m-Cresci	1	* 200.0
D024	2-Crasol		* 200.0
C025	Cresol		200.0
C015	2,4-0		
C027	1.4-	105-46-7	7.5
C027	Dichlorogen-	1,50-40-4	7.3
	2979.	, i	
- CO-CO	: t.Z-	107-06-2 i	0.5
C028	Dichtorgen-	107-00-4	4.5
	ine.	-	
C029	1,1-	75-35-4	0.7
	: Dicmordethy-	13-33-4	9.1
	lene.		
	2.4-	121-14-2	* 0.13
5000	Cinitrotoluene	121-1-2	U. 1.2
0012	Endna	72-20-8	0.02
0031	Heotachior (and	75-44-8	0,008
0031	its inversage).	, , , , ,	5.544
cosz	Hexachioropen-	118-74-1	* 0.13
	zene.	110-74-1	3.73
0000	Hexachioroputa-	87-68-3	0.5
5000	diane.	4, 24,	•.•
2034	Hexachioroeun-	67-72-1	3,0
	ane.	4.	
CCCS	Lead 💃	7439-92-1	5.0
C013	Lindané	58-69-9	0,4
E009	Mercury .	7439-97-6	0.2
D014	Methaxychior	72-43-5	10.0
0035	Metnyl ethyl	78-93-3	200.0
5005	ketone.		-
0038	Nitropertzene	98-95-3	2.5
C037	Pentracnioro-	87-86-5	100.0
	onendi.	i	
CC38	Pyricine	110-36-1	1 5.0
S01 0	Selemum	7782-49-2	1.0.
C911	Silver	7440-22-4	5.0
C039	Terrachiorograyi-	أ نسبة 127-12	a, z
•	erre.		
0015	Toxagnane	8001-35-2 :	0.5
D400	Тліспіоговілуі-	79-01-6	(0.5
	ene.	1	
C041	2,4,5-	95-35-4	400.0
	Trichtere-	1	
	phenou		_
C04Z	2.4.6-	88-06-2	2.0
	Trichtora-	ì	
	granat.	İ	. :
D017	2.4.5-TP (Silvex)	93-72-1	_آي_
D043	Vintyl chloride	75-01-4	0.2
			_

¹ Hazarogus weste number.

Chemical adstracts service number ² Cuantitation limit is greater than the calculated regulatory lovel. The quantitation what therefore becomes the regulatory level.

*If 0-, m-, and o-Cresor concentrations cannot be differentiated, the total cresor (0026) concentration is used. The requiatory-level of total cresor is 200 mg/L